

000127-3646E/60

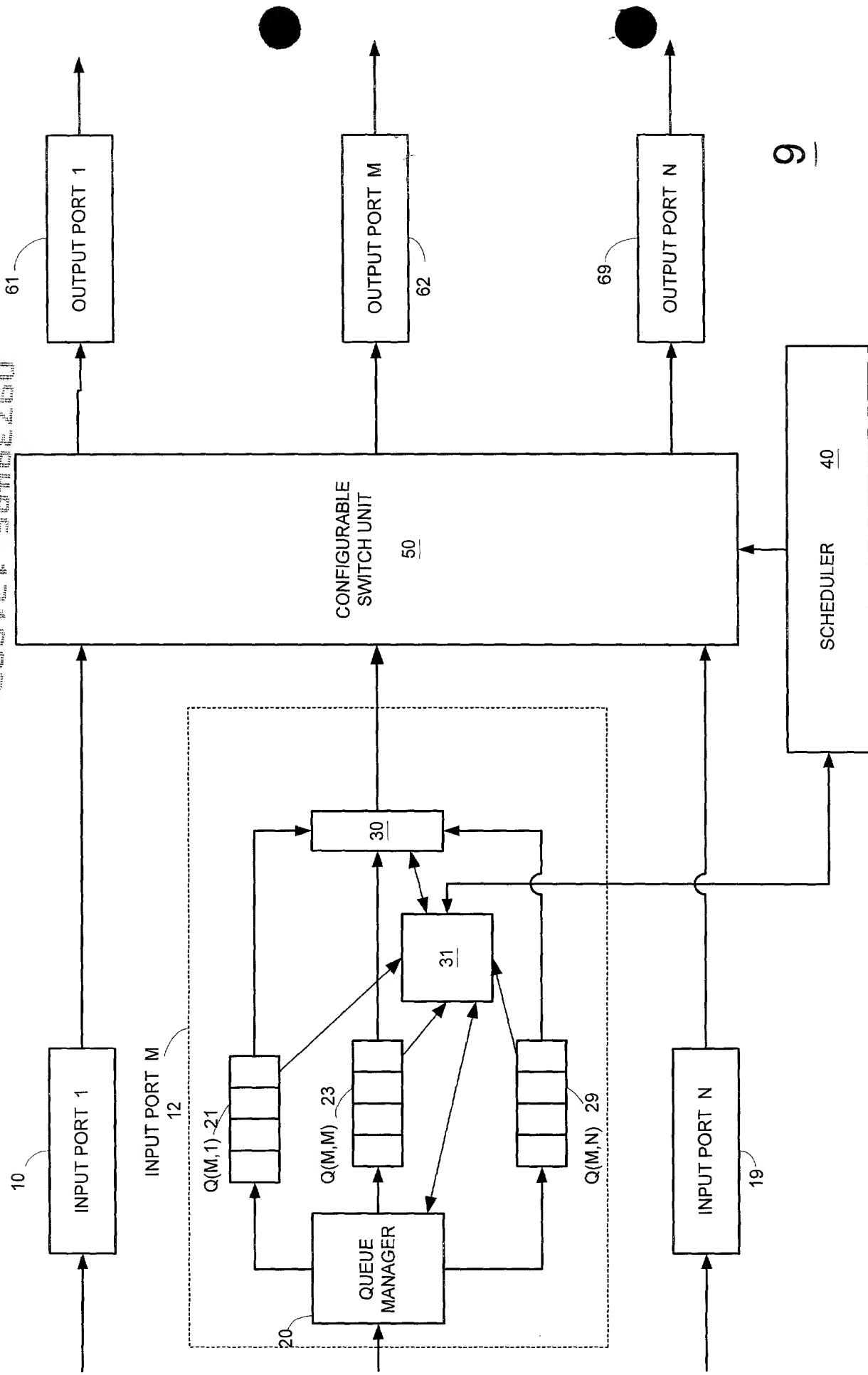


FIG. 1

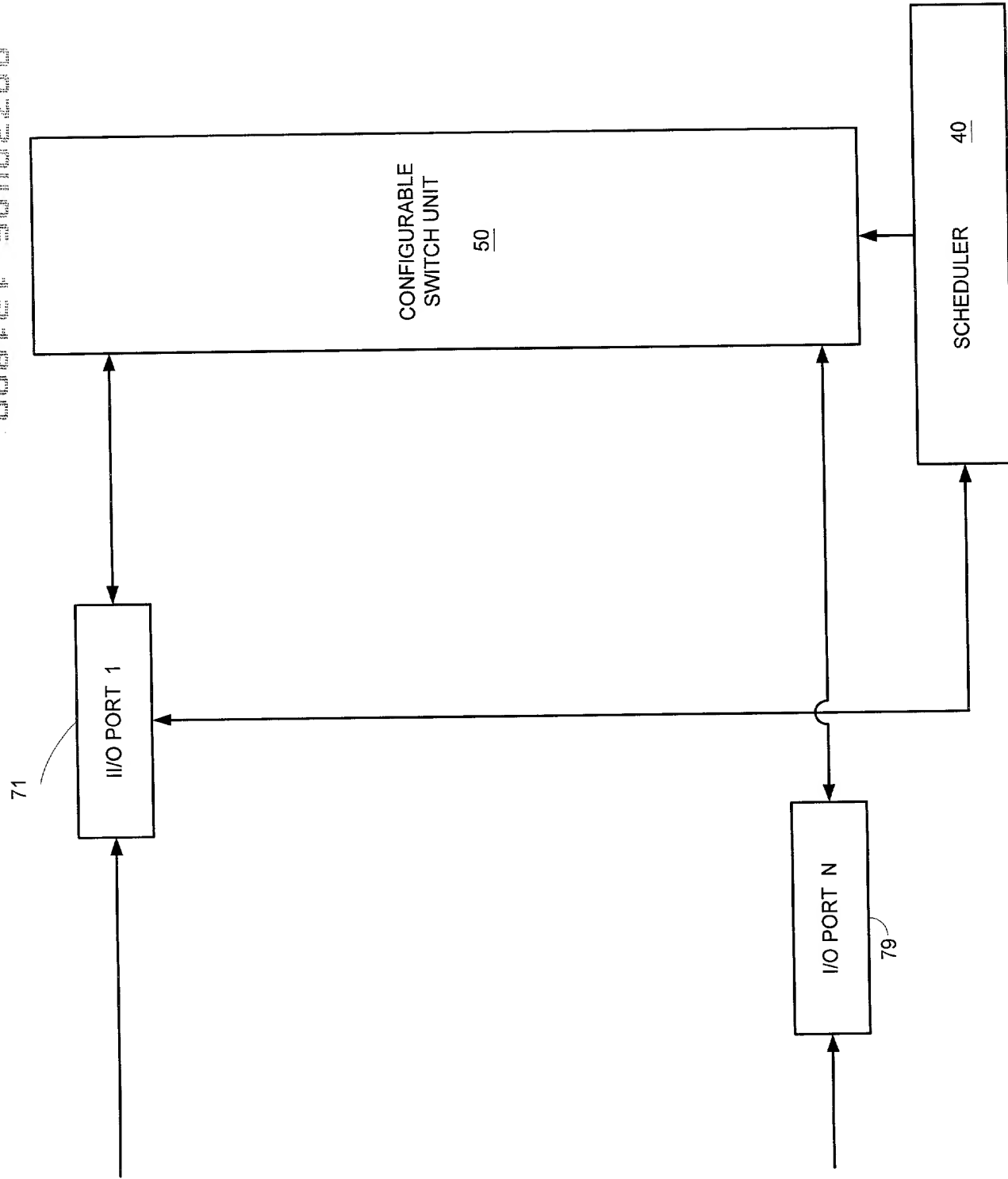


FIG. 2

CHECKING, AT EACH TIME SLOT, FORWARDING REQUESTS TO FORWARD VARIABLE LENGTH PACKETS FROM SOURCE PORTS TO DESTINATION PORTS OF THE MULTI-PORT SWITCH, IGNORING FORWARDING REQUESTS FROM SOURCE PORTS AND DESTINATION PORTS THAT WERE PREVIOUSLY SCHEDULED TO FORWARD AND RECEIVE ACCORDINGLY AT LEAST PORTIONS OF VARIABLE LENGTH PACKETS DURING THE NEXT TIME SLOT 111

SELECTING SELECTED FORWARDING REQUESTS OUT OF THE CHECKED FORWARDING REQUESTS
112

CONFIGURING THE MULTI-PORT SWITCH FOR ALLOWING TO SERVICE THE SELECTED FORWARDING REQUESTS DURING THE NEXT TIME SLOT
113

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FIG. 3

PERIODICALLY CHECKING CONNECTION REQUESTS, EACH
CONNECTION REQUEST REQUESTING TO COUPLE A DESTINATION
PORT TO A SOURCE PORT FOR FORWARDING A VARIABLE LENGTH
PACKET FROM THE SOURCE PORT TO THE DESTINATION PORT,
IGNORING CONNECTION REQUESTS FROM SOURCE PORTS AND
DESTINATION PORTS THAT ARE COUPLED DURING THE CURRENT TIME
SLOT FOR FORWARDING VARIABLE LENGTH PACKETS THAT ARE
SCHEDULED TO CONTINUE DURING THE NEXT TIME SLOT

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PROCESSING THE CHECKED CONNECTION REQUESTS TO DETERMINE
THE CONNECTIVITY OF THE CROSSBAR SWITCH DURING THE NEXT TIME

SLOT

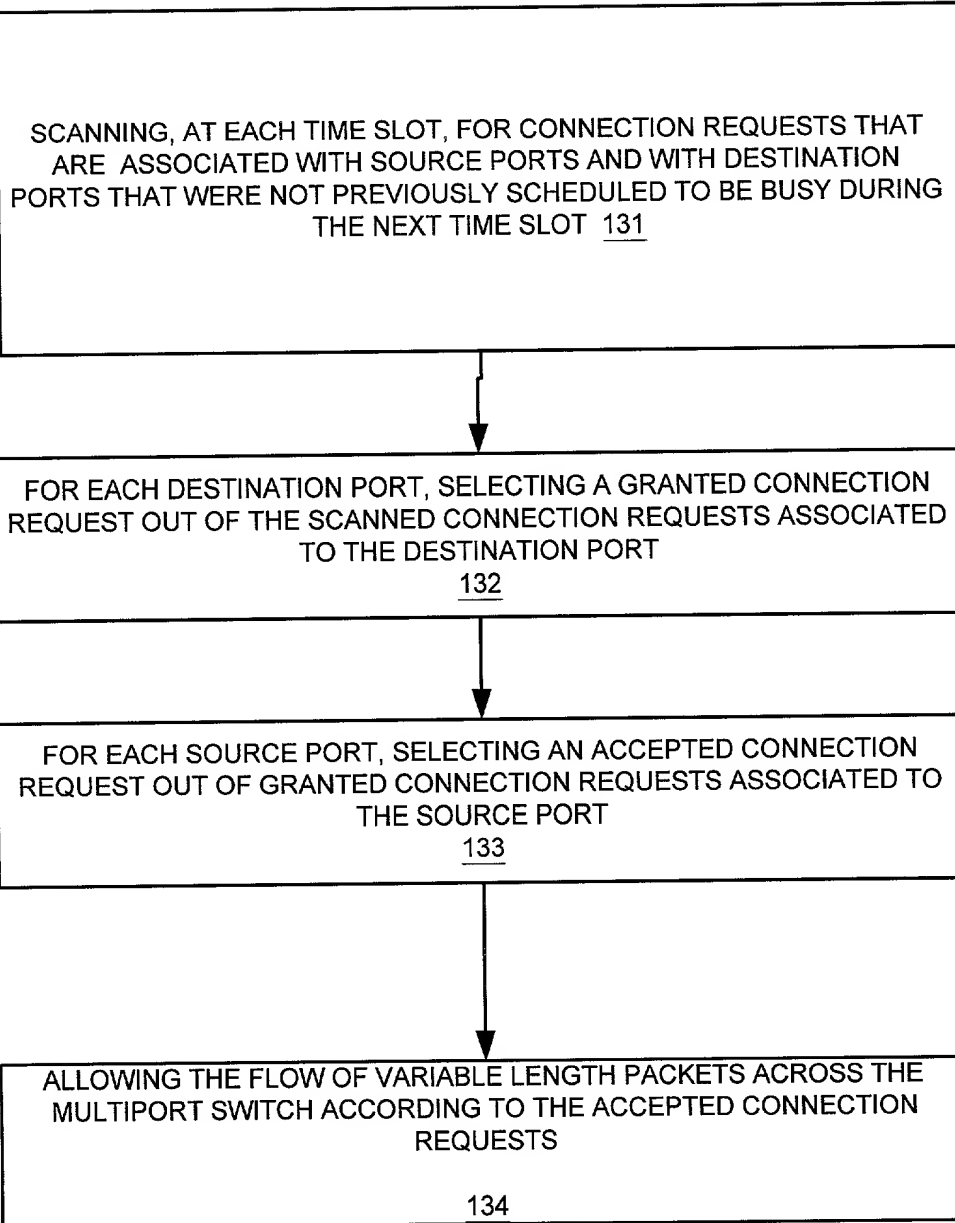
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PROVIDING CONTROL SIGNALS TO THE CROSSBAR SWITCH IN VIEW OF
THE DETERMINATION

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FIG. 4



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FIG. 5

SCANNING, AT EACH TIME SLOT, A CONTENT OF INPUT QUEUES WITHIN
INPUT PORTS AND GENERATING FLOW REQUESTS FOR ALLOWING
VARIABLE LENGTH PACKETS TO FROM FROM INPUT PORTS TO OUTPUT
PORTS, BOTH PORTS WERE NOT PREVIOUSLY SCHEDULED TO BE
BUSY DURING THE NEXT TIME SLOT 141

COMPARING FLOW REQUESTS AND SELECTING SELECTED FLOW
REQUESTS TO BE SERVICED DURING THE NEXT TIME SLOT 142

UPDATING THE CONFIGURATION OF THE CONFIGURABLE MULTIPOINT
SWITCH FOR ALLOWING TO SERVICE THE SELECTED FLOW REQUESTS
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FIG. 6